Claims

What is claimed is:

- 1. A compressor comprising:
- a compression mechanism for sucking, compressing and discharging refrigerant;
 - a reservoir for storing liquid for lubricating sliding portions including the compression mechanism;
- a housing for containing the compression mechanism and the reservoir; and
 - a refrigerant go-around passage, provided in the housing, for introducing the refrigerant discharged from the compression mechanism into the housing via a refrigerant introducing port, making the refrigerant go around an axial line of the compressor and returning the refrigerant to a discharge-port side of the housing via a refrigerant returning port, while separating the liquid from the refrigerant by centrifugation or by centrifugation and collision, wherein
- a liquid returning port is provided for returning the separated liquid into the housing in a wall of a mid part of the refrigerant go-around passage in such a manner that the liquid returning port has an orientation that has a component in a direction of gravity and that is deviated from a traveling direction of the refrigerant.
- 25 2. A horizontal type compressor to be placed at an angle

or horizontally, comprising:

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a compression mechanism for sucking, compressing and discharging refrigerant;

a reservoir for storing liquid for lubricating sliding portions including the compression mechanism;

a housing for containing the compression mechanism and the reservoir; and

a refrigerant go-around passage for introducing the refrigerant discharged from the compression mechanism into the housing via a refrigerant introducing port provided in an upper portion of the housing, making the refrigerant go around an axial line of the compressor and returning the refrigerant to a discharge-port side of the housing via a refrigerant returning port provided in the upper portion of the housing, while separating the liquid from the refrigerant by centrifugation or by centrifugation and collision, wherein

a liquid returning port is provided for returning the separated liquid into the housing in a wall of a mid part in a lower part of the refrigerant go-around passage in such a manner that the liquid returning port has an orientation that has a component in a direction of gravity and that is deviated from a traveling direction of the refrigerant.

- 3. The compressor according to claim 1 or 2, wherein the refrigerant go-around passage is arranged on the same plane.
 - 4. The compressor according to claim 1 or 2, wherein the

refrigerant go-around passage is provided at a discharge-port side end of the housing.

- 5. The compressor according to claim 1 or 2, wherein the refrigerant go-around passage is constituted by a concave streak formed on a substrate attached to an end wall of the housing or to the housing and a lid for covering the concave streak.
- 6. The compressor according to claim 5, wherein the substrate is attached to the housing together with the lid.
- 7. The compressor according to claim 1 or 2, wherein each of the refrigerant introducing port, the refrigerant returning port, and the liquid returning port is provided at at least one position in the traveling direction of the refrigerant.
- 8. The compressor according to claim 1 or 2, wherein a guide for collecting the refrigerant to direct the collected refrigerant into the refrigerant introducing port is provided in the refrigerant introducing port.
- 9. The compressor according to claim 1 or 2, further 0 comprising an electric motor for driving the compression mechanism, the electric motor being housed in the housing.